
NEW RECORDS OF WATER MITES FROM OHIO.¹ Crowell (1960) listed the species of water mites known to occur in Ohio. Between 1958 and 1965, collections of water mites made in Wayne County, Ohio, by students and by myself have yielded two new species described by Cook (1967), and a number of species not included in the Crowell (1960) list. The new records, with data concerning the places and dates of collection, are as follows:

1. *Thyas barbiger* Viets.—collected during March and April from every vernal pool, many flood pools and one marsh from which collections were made.
2. *Euthyas truncata* (Neuman).—collected in March from a vernal pool in Clinton Twp. (R14W,T20N,S.21), and in May from a flood pool in Chester Twp. (R14W,T20N,S.25).
3. *Sperchon glandulosus* Koenike.—collected from February through May from springs in Chester Twp. (R14W,T20N,S.24) and Clinton Twp. (R14W,T18N,S.19).
4. *Pionopsis lutescens* (Hermann).—collected during April and May from flood pools in Chester Twp. (R14W,T20N,S.25) and Franklin Twp. (R13W,T14N,S.18), from a marsh in Franklin Twp. (R13W,T14N,S.7), and from a spring in Plain Twp. (R14W,T19N,S.25).
5. *Tiphys ornatus* Koch.—collected during April and May from a marsh in Franklin Twp. (R13W,T14N,S.7).
6. *Tiphys weaveri* Cook.—collected during March and April from a vernal pool in Chester Twp. (R14W,T20N,S.29), and in April from flood pools in Wooster Twp. (R13W,T15N,S.32) and Franklin Twp. (R13W,T14N,S.18).
7. *Piona interrupta* Marshall.—collected in November from a marsh in Franklin Twp. (R13W,T14N,S.20).
8. *Piona conglobatella* Cook.—collected during March and April from a vernal pool in Chester Twp. (R14W,T20N,S.29), and from a flood pool in Franklin Twp. (R13W,T14N,S.20).

¹Manuscript received November 29, 1966.

9. *Piona neumani* (Koenike).—collected in April from a marsh in Franklin Twp. (R13W,T14N,S.7).
10. *Piona clavicornis* (Mueller).—collected during April and May from vernal pools in Clinton Twp. (R14W,T18N,S.21) and Franklin Twp. (R13W,T14N,S.8); from flood pools in Franklin Twp. (R13W,T14N,S.18, R13W,T14N,S.20), Chester Twp. (R14W,T20N,S.25), and Wooster Twp. (R13W,T15N,S.32); and from marshes in Franklin Twp. (R13W,T14N,S.7) and Plain Twp. (R15W,T21N,S.24).
11. *Piona constricta* (Wolcott).—collected during April and May from a vernal pool in Clinton Twp. (R14W,T18N,S.21); from flood pools in Franklin Twp. (R13W,T14N,S.18), Wooster Twp. (R13W,T15N,S.32), and Chester Twp. (R14W,T20N,S.25); and from a marsh in Franklin Twp. (R13W,T14N,S.7).
12. *Piona pinguipalpis* Cook.—collected during April and May from flood pools in Franklin Twp. (R13W,T14N,S.18, R13W,T14N,S.20) and Chester Twp. (R14W,T20N,S.25).
13. *Piona inconstans* (Wolcott).—collected in April from a flood pool in Franklin Twp. (R13W,T14N,S.20), and from a drainage ditch in Green Twp. (R12W,T17N,S.34).
14. *Axonopsis ohioensis* Cook.—collected in November from a lake in Clinton Twp. (R14W,T18N,S.15).
15. *Arrenurus major* Marshall.—collected in January from a lake in Clinton Twp. (R14W,T18N,S.15).
16. *Arrenurus planus* Marshall.—collected in May from a vernal pool in Clinton Twp. (R14W,T18N,S.21).
17. *Hydrozetes* sp.—collected during March and April from vernal pools in Wooster Twp. (R13W,T15N,S.3) and Chester Twp. (R14W,T20N,S.29), and from a marsh in Franklin Twp. (R13W,T14N,S.7).

In addition to these new records for the state of Ohio, the following genera and species included in the Crowell (1960) list have been identified in our collections:

Vernal pools—*Eylais extendens* Mueller, *Hydryphantes ruber* (Geer), *H. waynensis* Crowell, *Neumania* sp., *Tiphys americanus* (Marshall), *Piona napio* Crowell, *Arrenurus* sp.

Flood pools—*Hydrachna* sp., *Eylais extendens* Mueller, *Hydryphantes ruber* (Geer), *H. waynensis* Crowell, *Tiphys americanus* (Marshall), *Pionu napio* Crowell, *P. rotunda* (Kramer).

Marshes—*Eylais extendens* Mueller, *Hydryphantes ruber* (Geer), *Limnesia* sp., *Tiphys americanus* (Marshall), *Arrenurus* sp.

Springs—*Neumania* sp.

Streams—*Lebertia porosa* Thor, *Torrenticola indistincta* (Marshall), *Limnesia* sp., *Tyrrellia circularis* Koenike, *Hygrobates longipalpis* (Hermann), *Arrenurus* sp.

Lakes—*Eylais extendens* Mueller, *Hydrodroma despiciens* (Mueller), *Limnesia* sp., *Arrenurus marshallae* (Piersig).

Determinations of the species in the genera *Thyas*, *Euthyas*, *Torrenticola*, *Pionopsis*, *Tiphys*, *Piona*, *Axonopsis*, and *Arrenurus* were made or confirmed by David R. Cook, Wayne State University. Confirmation of the species determinations in the genera *Sperchon* and *Tyrrellia* was made by Rodger D. Mitchell, University of Florida. ANDREW A. WEAVER, *The College of Wooster, Wooster, Ohio*.

REFERENCES CITED

- Crowell, R. M. 1960. The taxonomy, distribution and developmental stages of Ohio water mites. Bull. Ohio Biol. Survey. Vol. 1, No. 2, 77 p.
- Cook, D. R. 1967. Two new species of water mites from Ohio. Ohio J. Sci. 67: 218–222.